

Skill Sheet 5-I-9

Objective 29: Change an SCBA cylinder — One-person method. (*NFPA® 1001, 5.3.1*)

Student Name: _____ **Date:** _____

Directions

For this skills evaluation checklist, students will practice changing an SCBA cylinder. Changing cylinders can be either a one-person or a two-person job. This skill sheet describes the one-person method for changing an air cylinder. Remind students to always follow the recommendations for the specific cylinders your department uses. On some SCBA, the audible alarm does not sound when the cylinder valve is opened. Students must know the operation of the particular unit they are using.

Remind students that they should always maintain a cylinder with 90-100% capacity, their lives may depend upon it. Don't cut corners! Remind students to follow a consistent routine for all aspects of PPE.

Equipment & Materials

- Full protective clothing and SCBA
- Salvage cover
- Replacement cylinder

Criteria & Evaluation Comments

Criteria (determined by the AHJ)

After the candidate has completed the skill sheet, write comments below.

Evaluator/Candidate Comments

Pass

☐

Fail

☐

Evaluator Signature

Date

Student Signature

Date

Skills Evaluation Checklist

Objective 29: Change an SCBA cylinder — One-person method.

Task Steps		Yes	No
1.	Place the SCBA unit on a firm surface.		
2.	Close the cylinder valve.		
3.	Bleed air pressure from high- and low-pressure hoses.		
4.	Disconnect the high-pressure coupling from the cylinder.		
5.	Remove the empty cylinder from harness assembly. a. Release clamp. b. Mark spent cylinder. c. Place on ground or salvage cover, if available.		
6.	Verify that replacement cylinder is 90-100% of rated capacity.		
7.	Check the cylinder valve opening and the high-pressure hose fitting for debris. a. Clear any debris by quickly opening and closing cylinder valve.		
8.	Place the new cylinder into the backpack. a. Position cylinder outlet. b. Lock cylinder in place.		
9.	Connect the high-pressure hose to the cylinder and hand-tighten.		
10.	Slowly and fully open the cylinder valve and listen for an audible alarm and leaks as the system pressurizes.		
11.	If air leaks are detected, determine if connections need to be tightened or if valves, donning switch, etc. need to be adjusted. Otherwise SCBA with audible leaks due to malfunctions shall be removed from service, tagged, and reported to the officer.		